IFW16

RAW SEQUENCE LISTING DATE: 08/05/2004
PATENT APPLICATION: **US/09/765,061E** TIME: 10:18:50

Input Set : **A:\96606-16UTL - SN 09765061 - Seq List.txt**
Output Set: **N:\CRF4\08052004\I765061E.raw**

P.7

3 <110> APPLICANT: Board of Regents of the University of Texas System
5 <120> TITLE OF INVENTION: MUTATIONS IN A NOVEL PHOTORECEPTOR-PINEAL GENE ON 17P CAUSE LEBER
6 CONGENITAL AMAUROSIS (LCA4)
8 <130> FILE REFERENCE: 96606/16UTL
10 <140> CURRENT APPLICATION NUMBER: 09/765,061E
11 <141> CURRENT FILING DATE: 2001-01-17
13 <150> PRIOR APPLICATION NUMBER: 60/331362
14 <151> PRIOR FILING DATE: 2001-01-14
16 <160> NUMBER OF SEQ ID NOS: 78
18 <170> SOFTWARE: PatentIn version 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 6689
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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27 <221> NAME/KEY: gene
28 <222> LOCATION: (1)..(6689)
29 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor interacting
30 protein-like 1
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1897)..(1906)
35 <223> OTHER INFORMATION: n is a, c, g, or t
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
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40 <223> OTHER INFORMATION: n is a, c, g, or t
42 <400> SEQUENCE: 1

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163 aaccccgtct ctattaaaaa cacaaaaatt aaccgggtgt ggtggtgcat gcctgtaatc 3660
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169 caaaaaaaag aaaaaaaaaa aaagtccact tggaaccagt ttttaaaaat gtgattcatt 3840

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Output Set: **N:\CRF4\08052004\I765061E.raw**

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261 ggatagttac atttgggggt catctcggtg atttttgtaa ctttacgcag gacacttaga 6600
263 gctctctaga atcccactga ctttagtggg gtcttgatgt agggtgggca agccccgaca 6660
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268 <210> SEQ ID NO: 2

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Output Set: **N:\CRF4\08052004\I765061E.raw**

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271 <213> ORGANISM: Papio anubis
274 <220> FEATURE:
275 <221> NAME/KEY: gene
276 <222> LOCATION: (1)..(1119)
277 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor interacting
278 protein-like 1
280 <400> SEQUENCE: 2
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283 acgggcgagc tcccaaactt catcaccgga tcccgagtga tctttcattt ccgcaccatg 120
285 aaatgtgatg aggagcgcac ggtcatcgac gacagccggc aggtggacca gcccatgcac 180
287 atcatcatcg ggaacatgtt caagctcgag gtctgggaga tcctgctcac ctccatgagg 240
289 gtgcacgagg tggccgagtt ctggtgcgac accatccaca cgggggtcta ccccatcctg 300
291 tcccggagcc tgcggcagat ggcccagggc aaggacccca cggagtggca cgtgcacaca 360
293 tgcgggctgg ccaacatgtt cgcctaccac acactgggct acgaggacct ggacgagctg 420
295 cagaaggagc ctcagcctct gatctttgtg atcgagctgc tgcaggttga cgccccgagt 480
297 gattaccaga gggagacctg gaacctgagc aatcatgaga agatgaaggt ggtgcccgtc 540
299 ctccacggag agggaaatcg gctcttcaag ctgggccgct acgaggaggc ctcttccaag 600
301 taccaggagg ccatcatctg cctaaggaac ctgcagacca aggagaagcc atgggaggtg 660
303 cagtggctga agctggagaa gatgatcaac accctgaccc tcaactactg ccagtgcctg 720
305 ctgaagaagg aggagtatta cgaggtgctg gagcacacca gtgacattct ccggcaccac 780
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311 gtgcgcaggg agctgaggct gctggagaac cgcatggcag agaagcagga ggaggagcgg 960
313 ctgcgctgcc ggaacatgct gagccaggga gccacgcagc ctcccacaga gccaccggca 1020
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321 <211> LENGTH: 1155
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323 <213> ORGANISM: Pan troglodytes
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327 <221> NAME/KEY: gene
328 <222> LOCATION: (1)..(1155)
329 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor interacting
330 protein-like 1
332 <400> SEQUENCE: 3
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337 aaatgtgatg aggagcggac agtcattgac gacagccggc aggtgggcca gcccatgcac 180
339 atcatcatcg gaaacatgtt caagctcgag gtctgggaga tcctgcttac ctccatgcgg 240
341 gtgcacgagg tggccgagtt ctggtgcgac accatccaca caggggtcta ccccatcctg 300
343 tcccggagcc tgaggcagat ggcccagggc aaggacccca cagagtggca cgtgcacaca 360
345 tgcgggctgg ccaacatgtt cgcctaccac acgctgggct acgaggacct ggacgagctg 420
347 cagaaggagc ctcagcctct ggtctttgtg atcgagctgc tgcaggttga tgccccgagt 480
349 gattaccaga gggagacctg gaacctgagc aatcatgaga agatgaaggc ggtgcccgtc 540
351 ctccacggrg agggaaatcg gctcttcaag ctgggacgct acgaggaggc ctcttccaag 600
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355 cagtggctga agctggagaa gatgatcaat actctgatcc tcaactactg ccagtgcctg 720
357 ctgaagaagg aggagtacta tgaggtgctg gagcacacca gcgacattct ccggcaccac 780
359 ccaggcatcg tgaaggccta ctacgtgcgt gcccgggctc acgcagaggt gtggaatgag 840
361 gccgaggcca aggcagacct ccggaaagtg ctggagctgg agccgtccat gcagaaggcg 900
363 gtgcgcaggg agctgaggct gctggagaac cgcatggcgg agaagcagga ggaggagcgg 960
365 ctgcgctgcc ggaacatgct gagccagggt gccacgcagc ctccggcaga gccacccaca 1020
367 gagccacccg cacagtcatc cacagagcca cctgcagagc caccccagc accatctgca 1080
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374 <210> SEQ ID NO: 4
375 <211> LENGTH: 1060
376 <212> TYPE: DNA
377 <213> ORGANISM: Bos taurus
380 <220> FEATURE:
381 <221> NAME/KEY: gene
382 <222> LOCATION: (1)..(1060)
383 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor interacting
384 protein-like 1
386 <400> SEQUENCE: 4
387 atggatgcca ctctgctcct gaatgtggaa gggatcaaga aaaccattct gcatgggggc 60
389 acaggggacc tccccaactt cattactgga gcccgagtga cctttcattt ccgaaccatg 120
391 aaatgtgatg aggagcggac ggtgatagac gacagcaagc aggtgggcca tcccatgcac 180
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407 taccaggaag ccatcgtctg cctgaggaac ctgcagacca aggagaaacc ctgggaggtg 660
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413 ccaggcatcg tgaaggccta ctatgtgagg gcccgggctc acgccgaggt gtggaatgag 840
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417 gtgcagaggg agctgaggct gctggagaac cggctggagg agaaacgcga ggaggagcga 960
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425 <211> LENGTH: 925
426 <212> TYPE: DNA
427 <213> ORGANISM: Canis familiaris
430 <220> FEATURE:
431 <221> NAME/KEY: gene
432 <222> LOCATION: (1)..(925)
433 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor interacting
434 protein-like 1
436 <400> SEQUENCE: 5
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439 tccgcacaac gaaatgcgac gaggcgcgga cagtgatcga cgacagcaag cgtgtgggcc 120

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/05/2004
PATENT APPLICATION: **US/09/765,061E** TIME: 10:18:51

Input Set : **A:\96606-16UTL - SN 09765061 - Seq List.txt**
Output Set: **N:\CRF4\08052004\I765061E.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1897,1898,1899,1900,1901,1902,1903,1904,1905,1906,3946
Seq#:52; Xaa Pos. 1
Seq#:72; Xaa Pos. 322

VERIFICATION SUMMARY DATE: 08/05/2004
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Input Set : **A:\96606-16UTL - SN 09765061 - Seq List.txt**
Output Set: **N:\CRF4\08052004\I765061E.raw**

L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1860
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:3900
L:1128 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42
L:1143 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:1158 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46
L:1197 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:1212 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:1227 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:1285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:35
L:1422 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:60
L:1437 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61
L:1452 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:62
L:1467 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:63
L:1482 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:64
L:1497 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:65
L:1512 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:66
L:1527 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:67
L:1542 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:68
L:1557 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:69
L:1572 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:70
L:1587 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:71
L:1693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:320